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FEDERAL INSTITUTIONS COMMISSION
OFFICE OF THE SECRETARY

IS/WP2-0210 2 JUL 92

ADVISORY COMMITTEE ON ADVANCED TELEVISIONS SERVICE IMPLEMENTATION SUBCOMMITTEE WORKING PARTY 2 - TRANSITION SCENARIOS MINUTES OF FORTIETH MEETING 6/24/92

- 1. The meeting was called to order by Acting Chairman, Merrill Weiss, at 10:10 A.M. at NCTA in Washington, D.C. Merrill introduced Craig Tanner as the new cochairman of IS/WP2.
- 2. The agenda was adopted with the addition of an agenda item 10a) Report to Implementation Subcommittee.
- 3. The minutes of the 5/19/92 meeting were approved as issued.
- 4. A list of attendees is attached.
- 5. Review of Action Items.
 - a) Started, but not complete. Carry as an action item.
 - b) Carry as an action item.
 - c) Carry as an action item.
 - d) Complete cover under agenda item 7.
 - e) Complete.
 - f) Carry as an action item.
 - g) Complete cover under agenda item 6.
- 6. Consumer Electronics Survey.

Merrill Weiss reviewed background on development of the consumer PERT charts and stated that the Consumer Electronics Survey was undertaken to validate PERT chart assumptions. Merrill also stated that additional survey responses have been received from Toshiba, Gold Star and Sharp. IS/WP2-0204, IS/WP2-0205, IS/WP2-0206. These new responses were briefly reviewed for the Working Party.

No. of Copies rec'd_ List A B C D E

A lengthy discussion took place on the introduction timing of ATV consumer receivers in the marketplace. Bob Rast was of the opinion that an earlier ATV implementation than is being forecast by IS/WP2 is possible. Bob stated the GI is likely to initiate IC development in the second half of 1992 and, based upon their earlier forecast of 18 - 24 months for IC development, IC's could be available for consumer receiver development in mid 1994. This would potentially make ATV receivers available in the first half of 1995. Merrill Weiss responded that this was not inconsistent with the range of implementation times forecast by IS/WP2. Larry Cochran stated that a one year receiver development time was required after the availability of working IC's. The Consumer Electronics PERT development group will review the additional survey results and meeting discussion points for potential impact of PERT milestones and timing.

Craig Tanner raised an issue of how the standardization documentation process should occur. Concern was expressed within the Working Party that if the process was anything more than strict documentation of the selected system, the process of documenting may become quite protracted. In particular, concern was expressed over the time that would be required to add "improvements" to the system by others than the Proponents. Craig suggested that this issue be raised with SS/WP4 for consideration. Merrill Weiss responded that this topic has been surfaced at a prior Implementation Subcommittee meeting, but should probably be highlighted again. Charles Heuer suggested that ATSC would be a more appropriate group for dealing with this issue. Craig Tanner agreed to draft a letter to ATSC surfacing issues which must be addressed in order to help facilitate the standardization process. Bob Rast, Charles Heuer and Dave Folsom will also participate. Gina Harrison suggested that system extensibility be considered in preparing the standardization issues document. Charles Heuer responded that only issues relating to the standardization process should be included in the document. Craig Tanner will collect inputs from other participants by July 8 and have a draft document available for review at the next IS/WP2 meeting.

7. Discussion on Responsibilities of Selected Proponent.

Merrill Weiss reviewed a letter sent to IS/WP1 concerning their involvement in determining the disclosure requirements for the selected system. IS/WP2-0207. Merrill stated that IS/WP1 has reviewed the letter and concluded that they did not have the technical expertise to deal with this issue. Considerable discussion followed on the amount of proprietary proponent information that should be included in a standard. It was suggested by Bob Rast that Proponents may choose to include non-patented trade secrets in their systems, but may be unwilling to include them in the standards document to be developed. Craig Tanner recommended that this issue be taken back to Implementation Subcommittee Chairman George Vradenburg for clarification and further direction. Craig will follow up on this task.

8. Software Survey.

Merrill Weiss distributed the software mini survey form that he developed. IS/WP2-0208. To date, two networks have been contacted. Merrill asked for suggestions on additional survey questions and organizations that should be contacted. Suggestions were made to add specificity to some of the open ended questions. Merrill will make the suggested changes and proceed with the informal telephone survey.

and proceed with the informal telephone survey.

9. Local Area Group Update.

Dave Folsom stated that he has talked to all Local Area Groups except Boston and that formal responses have been received from two groups. A common concern expressed by all groups was with the power levels indicated on the chart provided by IS/WP2. Dave indicated that all groups except Los Angeles have issues with tower capacity and that the cellular approach was of interest because of its potential impact on power requirements. It was also noted that channel placement in a given area appears to be less of an issue than anticipated. Local Area Group responses received to date are shown in attachment IS/WP2-0209.

Ed Williams noted that the rationale for selection of equipment to be used in the field test is not yet complete. The document will be completed for presentation to the next Field Test Task Force meeting and will be available shortly thereafter for sharing with the Local Area Groups. Ed also noted that the proposed equipment is of high quality, but is in general NTSC-type transmission equipment.

Merrill Weiss stated that he has talked to the chairman of the Broadcasters Caucus concerning the formation of additional Local Area Groups and that they have no plans other than to determine channel placement in given areas. Charles Heuer stated that there were other Local Area issues that need attention prior to channel placement. Dave Folsom responded that most of these issues are interrelated with channel placement. After further discussion, it was decided that Dave Folsom will establish five additional Local Area Groups and seed these groups with suggestions for resolving capacity problems.

10. Discussion on Distributed Transmission Approach.

Merrill Weiss reviewed the distributed transmission approach discussed at the previous IS/WP2 meeting and reiterated the advantages of this approach on reduced interference area and lower main transmitter power requirements. Charles Heuer described several technical issues relating to ghost cancellation performance and antenna directionality that must be thought through in more detail before considering a distributed transmission approach. Considerable discussion took place on these topics. Dave Folsom agreed to chair a small group of broadcaster-related IS/WP2 members to evaluate the practical and economic implications of this concept in more detail. Charles Heuer suggested that the group investigate specific cases relating to small cells and large cells. Once broadcaster requirements for operation of such systems are completed, the Proponents will be contacted for information on the operation of their systems under such conditions.

11. Proponent Meeting Follow-Up.

All Proponent responses have now been received. Attached are follow-up question responses from Zenith, GI and MIT. IS/WP2-0211, IS/WP2-0212, IS/WP2-0213. Merrill Weiss will complete the collation of these responses in preparation for a possible Professional Equipment Manufacturers Survey. Charles Heuer suggested that a quicker indication of equipment development time might be obtained from SS/WP3 and their efforts to establish encoder development timing. After further discussion it was concluded that antenna and transmission equipment development and availability in quantity were likely to be more critical than encoder development. Merrill Weiss was tasked with contacting transmitter

12. Final Report Preparation.

The Executive Summary prepared at the previous IS/WP2 meeting will be forwarded to Lynn Claudy. It was agreed that the last sentence in this summary would be deleted. IS/WP2-0214.

13. Report to Implementation Subcommittee.

The Working Party briefly reviewed the topics to be discussed at the upcoming Implementation Subcommittee Meeting.

14. Surveys.

Merrill Weiss reported that ACATS Chairman Wiley has asked that all ACATS subcommittees and working parties review with his office all surveys and questionnaires directed to HDTV proponents, industry segments or others outside the ACATS structure. IS/WP2-0215.

15. ATV Block Diagrams.

Further updates to the ATV block diagrams and tables were made by SS/WP3. IS/WP2-0216.

- 16. Summary of Action Items.
 - a) Complete informal software survey. Merrill Weiss
 - b) Provide information relating to antennas, etc. to Local Area Groups. Dave Folsom
 - c) Review with Field Test Task Force Ed Williams' proposal to use adaptive signal coding to reduce peak to average power requirements. Jim Kutzner
 - d) Ask Local Area Groups for comments on distributed transmission TV station operation after response has been received from Proponents. Dave Folsom
 - e) Draft letter to ATSC on issues relating to the standardization documentation process.
 Craig Tanner
 - f) Review Consumer Electronics Survey information for potential impact on PERT networks. Larry Cochran
 - g) Review with George Vradenburg future IS/WP2 involvement in determining responsibilities of the selected Proponent in developing technical standards. Craig Tanner
 - h) Organize additional Local Area Groups. Dave Folsom
 - i) Convene broadcaster group to evaluate practicality and economic feasibility of distributed transmission approach to ATV transmission. Dave Folsom

- j) Contact transmitter and antenna manufacturers for information on ATV equipment lead times and availability. Merrill Weiss
- 7. The next meeting is scheduled as follows:

Tuesday, July 21, 1992 10:00 A.M. PBS Media Room, Fifth Floor 1320 Braddock Place Alexandria, VA

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18. The meeting was adjourned at 4:35 P.M.

FCC ADVISORY COMMITTEE ON ADVANCED TELEVISION SERVICE WORKING PARTY ON TRANSITION SCENARIOS (WP2)

Wednesday, June 24, 1992 10:00 A.M. NCTA 1st Floor Conference Room 1724 Massachusetts Avenue Washington, D.C.

AGENDA

- 1. Adoption of Agenda.
- 2. Approval of 5/19/92 Minutes.
- 3. Review of Action Items.
- 4. Consumer Electronics Survey.
- 5. Software Survey.
- 6. Local Area Group Update.
- 7. Discussion of Cellular Implementation.
- 8. Discussion of Responsibilitie of Selected Proponent.
- 9. Proponent Meeting Follow-Up.
- 10. Final Report Preparation.
- 11. New Business.
- 12. Conclusions and Action Items.
- 13. Next Meeting.

TRANSITION SCENARIOS

WP-2

June 24, 1992

NAME	COMPANY	ADDRESS PHONE
LARRY COCHRAN	THOMSON CONSUMER ELEC.	THOMSON CONSUMER ELEC. 600 NI. SHERMAN DR HONES MOKEN 317-251-4226(F)
CHANGS HELLER	Zeilith Elect Co.	. 1000 MILL WANKED AVE GLENVIEW 708 835- 2683 H.
Jae Lim	MIT	439 619-255-1493 (W
Ken Skinner	Philips Labs	345 Starbussigh Roul Briggeliff Waser, N.T. 10570 " "- 6500 FAX
JIM GASPAR	ATVL	95E COUMECTICUT OF BUILDED NI COOK (609) 386-8527
CRAIG TANNER CABLELARS	CABLELÀBS	1050 WALMUT ST, SUITE 500 BOULDER CO \$0302 (303) 939-8500
Ann HASOMAN	HOTY INTERNATIONAL	(70%) 548-1423 (462 5. COLUMBUS 5T. KEKHODEIALH 22314 (203) 348-2063 AX
Joe Donahue	Thomson Consumar Elec	Joe Dong hue Thomson Consumer Elect, suite 601 wash ocases -202-872-0670
130 g + L (Cle.	NCTA	1734 Miss Ax, No Water De sonse God 715 3580
Jensylve Cour	77:1	4935 Swood fourth Colombia, A.D. 1944 (321) 982-1915
		1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1
MANE FOLLOW WENT		1001 WOUDELEY CHANGE IN 20217 (TOY) 529-36 (TOY) 357-4980
AL ROVER	JOURNAL C	ROWDENCE JOURNAL CO. 15 FOUNTAIN ST. PROVIDENCE A CARROS (401) 271-7934
S. Mernill Wass	Consultant	25 Mulbery Lave - Edison, NJ 08820-3908 (908) 906-0907 Phon & FAX
Stan Baron	NAC 39 K	30 (locketeller plaze (1600) New York, Nt (212)664-7557- + Pex 6217

TRANSITION SCENARIOS

WP-2

June 24, 1992

NAME	COMPANY	ADDRESS	PHONE	
Ray Laus	CONFUSANT AT	TRC ZOI WASHINGTON &	Acron 08/13 609 754 20	758
JEFF KRAUSS	CONSULTANT, GI	17 W. JEFFERSON ROCKVILLE	St #106 MD 20050 301-309-3	
Bds Rast	GI	6262 Lusk Blud., San	Dieso, CA 92121 619/535-	2532
William Zou	PBS	13 20 Braddock PL. Alex	anohia, va 22314 703-739	1-5475
DAVID CHILSOI	J ABC 4		10023 212456-3663	
ED WILLIAMS	PUS	1330 BRADDOCK PL +	200 ALEXANDRIA VA 22319	4 (703) 139.3550

TOSHIBA AMERICA CONSUMER PRODUCTS, INC. ADVANCED TELEVISION TECHNOLOGY CENTER

202 CARNEGIE CENTER SUITE 102 PRINCETON, N.J. 08450

PHONE:(609)951-8500 FACSIMILE:(609)951-9172

May 27, 1992

Mr. S. Merrill Weiss Acting Chairman ISWP-2 25 Mulberry Lane Edison, New Jersey 08820-2908

Dear Merrill:

Attached is our response to the ISWP-2 questionnaire which explores the availability of consumer receivers and VCR's once a HDTV standard is established in the U.S. In general we agree with the time frame set forth in the ISWP-2 PERT and Gantt charts, i.e., that there will be a time lag of between two and three years after the FCC decision before receivers are generally available in consumer stores.

I regret the confusion caused by the trade press report stating that we would be ready to manufacture receivers within one year after the Commission's decision. While I certainly hope this will be possible, unfortunately, it does not appear realistic.

Sincerely,

Gregory DePriest Vice President

Advanced Television Technology

Attachments

FCC Advisory Committee on Advanced Television Service Implementation Subcommittee

	Working Party 2 on Transition Scenarios (IS/WP-2)	
-	Survey of Consumer Electronics Manufacturers	
-	;	
Name	Mikhail Tsinberg, Sr. Research Manager	
Company	Toshiba America Consumer Products - ATV-TC	
☐ Respon	se will be provided by another person from this company.	
Name o	of respondent:	
numbers in days on the on the botto critical paths. The duration to work days first, middle beyond the	nine the associated PERT and Gantt charts before answering the question the blocks on the PERT chart are: the task number at the top left, the duringht side, the projected start date on the bottom left, and the projected firm right. The items in ellipses are milestones; they all have zero durations are shown as solid lines and the non-critical paths as dotted lines. In shown in both the PERT and the Gantt charts are in calendar days, as as. The durations have been adjusted to generally make events begin and entering or last days of a month. The bars on the Gantt chart sometimes extend actual dates of their related tasks. This results from the time granularity rogram that generated the chart. For accurate determination of the dates, plant.	ration in nish date on. The opposed on the slightly y of the
general case own compan product lines please consid	g the questions below, please remember that the study is targetted to mode of a non-proponent receiver manufacturer. Please apply what you know about some about which you could respond and for which there are several product the one(s) with the shortest time to market. Use the back of the page from for your answers.	out your ducts or answers,
1. Are the	tasks shown on the PERT chart the right ones? Yes 🕮	No □
		eted 🗆

	asks should be added, please briefly describe the tasks and indicate the ks that preceed and follow them by task number.
c. If ta	asks should be deleted, please indicate the task numbers:
	asks should be modified, please give the task number and briefly describe changes required.
2. Do you	agree with the durations given for the tasks? Yes X No
	No," which task numbers should be changed and what durations should y have?
	The duration for the tasks could vary for different manufacturers.
3. Do you	agree with the assumptions given? Yes No No
	No," what assumptions should be added? Which should be deleted? ich should be changed and how?
	The transition scenarios for the implementation of ATV in the U.S.A. will depend on availability and price of consumer receivers, as well as with availability of programming.
•	

4.	What can be done to shorten the time to production? Consider both the tasks themselves and any external factors or assumptions that might impact the
	development time.
5.	If your company also manufactures VCRs, would the development process and timing be about the same as for television receivers? Yes \(\Bar{\to}\) No \(\Bar{\to}\)
	a. If "No," how would they be different? What factors might influence the difference?
	The development of Digital HDTV VCR based on compressed video will depend on the VCR standards. It is unclear when such standards will be established.
	h. What are he done to charter the size of graduation for VCRe?
	b. What can be done to shorten the time to production for VCRs?
	To establish VCR standard.

Please return this questionnaire no later than Friday, February 21, 1992. Thank You!

GOLDSTAR NORTH AMERICA LAB., INC.

8410 WEST BRYN MAWR AVENUE SUITE 900 CHICAGO, IL 60631 TEL (312) 693-0450 • FAX (312) 399-0817

June 16, 1992

Mr. S. Merrill Weiss Acting Chairman Consultant in Electronic Media Technology/Management 25 Mulberry Lane Edison, NJ 08820-2098

Re : Development Process for HDTV Receivers.

Dear Mr. Weiss:

Thank you very much for your kind attention to our company, GoldStar and especially to your 2nd letter to remind us to reply to your questionaire for the scenario of HDTV development.

While we apologize our late reply to you, we are very much pleased to give our opinion as described on the attached sheet.

If you have any question or recommendation, please don't hesitate to contact us at (312) 693-0450.

Sincerely yours,

GOLDSTAR NORTH AMERICA LAB., INC.

Wantae/Kim

Vice President

FCC Advisory Committee on Advanced Television Service Implementation Subcommittee

	Working Party 2 on Transition Scenarios (IS/WP-2)	
•	Survey of Consumer Electronics Manufacturers	
Name	Mr. Benett Norell, Marketing Manager-Video Products	
Company	GoldStar Electronics International, Inc.	
Respon	se will be provided by another person from this company.	
Name o	frespondent: Wantae Kim, Vice President, GoldStar North America Lab., In	2 .
numbers in lays on the botto ritical paths. The duration work days irst, middle seyond the s	the blocks on the PERT and Gantt charts before answering the questions. The the blocks on the PERT chart are: the task number at the top left, the duration in right side, the projected start date on the bottom left, and the projected finish date on right. The items in ellipses are milestones; they all have zero duration. The sare shown as solid lines and the non-critical paths as dotted lines. It is shown in both the PERT and the Gantt charts are in calendar days, as opposed in the durations have been adjusted to generally make events begin and end on the start, or last days of a month. The bars on the Gantt chart sometimes extend slightly actual dates of their related tasks. This results from the time granularity of the organithat generated the chart. For accurate determination of the dates, please use part.	
eneral case wn compan roduct lines lease consid	the questions below, please remember that the study is targetted to modelling the of a non-proponent receiver manufacturer. Please apply what you know about your sy's development process to such a general case. If there are several products or about which you could respond and for which there would be different answers, for the one(s) with the shortest time to market. Use the back of the page if you come for your answers.	
. Are the	tasks shown on the PERT chart the right ones? Yes 🖾 No 🗆	
	o," should tasks be added, deleted, or modified? Added Deleted Modified Modified	

·	If tasks should be added, please briefly describe the tasks and indicate tasks that preced and follow them by task number.
c.	If tasks should be deleted, please indicate the task numbers:
. d.	If tasks should be modified, please give the task number and briefly desc the changes required.
2. Do	you agree with the durations given for the tasks? Yes 🗆 No
•	If "No," which task numbers should be changed and what durations sho they have?
((1) 006 (Initial system design); 8 months are needed. (2) 009/011 (Emulator Develop initial/Emulator Develop final); Total 12 months are needed. (3) 014 (prototype development); 6 months are needed after IC design and simulation are finished.
3. Do	continue to separate sheet you agree with the assumptions given? Yes No
a. 1	if "No," what assumptions should be added? Which should be delete Which should be changed and how?
R	e: Task 2, NPRN generation As FCC is supposed to select the final ATV standard at the end of 1993, the manufacturers of HDTV receiver will not get enough

••

4. What can be done to shorten the time to production? Consider both the tasks themselves and any external factors or assumptions that might impact the development time.

The most time consuming task is to design IC in order to reduce the its size and cost of the TV set eventually. We belive the proponents are very anxious to make custom ICS as soon as possible for the earliest emergence in the market. We, meanwhile, the TV set manufacturers would be better wait for the final VLSI chips which are developed by HDTV proponents in stead of spending time and money by developing same technologies at the same time. In this reason, we would like to ask the HDTV proponents to give any information on IC chips which are related with HDTV display to the HDTV manufacturers continously.

- 5. If your company also manufactures VCRs, would the development process and timing be about the same as for television receivers? Yes 🖾 No 🗆
 - a. if "No," how would they be different? What factors might influence the difference?

b. What can be done to shorten the time to production for VCRs?

Standardization of VCR such as its format should be fixed as soon as possible.

Please return this questionnaire no later than Friday, February 21, 1992. Thank You!



8410 WEST BRYN MAWR AVENUE SUITE 900 CHICAGO, IL 60631 TEL (312) 693-0450 ● FAX (312) 399-0817

--- continue from the question #2---

- (4) 023 (life test and evaluation); 6 months are needed for this step including for FCC/CSA/UC test.
- (5) 025 (Pre production); 3 months are needed for the change and improvement of the production processing.

After all, we guess another 12 to 14 months would be needed than your proposal in accordance with the comments mentioned above.

SHARP.

SHARP ELECTRONICS CORPORATION

Sherp Plaza • P.O. Box 650 • Mehwah, N.J. 07430-2135 Corporate Number (201) 529-8200 • Telex 134-327 June 22, 1992 PST - 7000

Writer's Telephone Number (201) 529- 9689

S. Merril Weiss 25 Mulberry Lane Edison, NJ 08820-2908

Subject: Response to IS/WP-2 Transition Scenario Survey

Dear Mr. Weiss:

Thank you for your guidance during our discussions at the FCC ACATS SS/WP-1 meeting in May of 1992.

Based on your information we are happy to submit the attached response to the survey (FCC ACATS IS/WP-2 Survey of Consumer Electronics Manufacturers).

Please feel free to contact us at any time.

Regards,

Richard V. Long

Project Engineer

Product Safety Department

CC: T. Kazo, SEC

M. Yoshida, SEC

Y. Okuno Ad

Advanced Technology Planning Department Corporate Research and Development Group Sharp Corporation,

1, 2613 Banchi, Ichinomoto-Cho, Tenri-Shi, Nara Pref. 632 Japan

FCC Advisory Committee on Advanced Television Service Implementation Subcommittee

	Working Party 2 on Transition Scenarios	(IS/WP-2)	
	Survey of Consumer Electronics Manufa	acturers	
Name	Richard Long		
Company	Sharp Electronics Corporation		
☐ Response	e will be provided by another person from this co	mpany.	
Name of	respondent:		
numbers in the days on the ricon the bottom critical paths at the durations to work days. First, middle, beyond the ac	the associated PERT and Gantt charts before answer the blocks on the PERT chart are: the task number at the ght side, the projected start date on the bottom left, and a right. The items in ellipses are milestones; they all lare shown as solid lines and the non-critical paths as do shown in both the PERT and the Gantt charts are in controlled to generally make every or last days of a month. The bars on the Gantt chart start dates of their related tasks. This results from the gram that generated the chart. For accurate determinations.	e top left, the distributed lines. Talendar days ents begin ar sometimes existed lines.	te duration in the date that is, as opposed and on the stend slightly ularity of the
general case of own company product lines a please conside	the questions below, please remember that the study is to a non-proponent receiver manufacturer. Please apply we's development process to such a general case. If there about which you could respond and for which there work the one(s) with the shortest time to market. Use the one your answers.	vhat you kno e are several juld be differ	w about your l products or rent answers,
I. Are the ta	isks shown on the PERT chart the right ones?	Yes 🔀	No 🗆
	"should tasks be added, deleted, or modified? /		Deleted Modified

-	b. If tasks should be added, please briefly describe th	ne tasks and in	dicate the
	tasks that preceed and follow them by task number.		
	c. If tasks should be deleted, please indicate the task n	iumbers:	
	d. If tasks should be modified, please give the task nur the changes required.	nber and briefly	y describe
:	2. Do you agree with the durations given for the tasks?	Yes 🔼	No 🗆
	a. If "No," which task numbers should be changed and they have?	d what duratio	ns should
	Each duration seems tight but is fairly reathe fastest introduction of ATV receivers uncertain circumstances.		
3	3. Do you agree with the assumptions given?	Yes □	No 83
	a. If "No," what assumptions should be added? Which should be changed and how?	ich should be	deleted?
	The evaluation method must be well establis	shed.	

4. What can be done to shorten the time to production? Consider both the tasks themselves and any external factors or assumptions that might impact the development time.

The participation of IC designers from the initial stage of system design will help shorten the overall design time.

- 5. If your company also manufactures VCRs, would the development process and timing be about the same as for television receivers?

 Yes
 No
 No
 - a. If "No," how would they be different? What factors might influence the difference?
 - -The mechanical/electrical tape format as well as the encoding format must be first standardized.
 - -The signal encoding format for VCR's maybe different from that for broadcasting, which may require additional IC development.
 - -New mechanical, and its control system, design maybe needed depending on the tape format.

b. What can be done to shorten the time to production for VCRs?

The earliest standardization of tape and encoding format is a key issue.

Please return this questionnaire no later than Friday, February 21, 1992. Thank You!

FCC Advisory Committee on Advanced Television Service Implementation Subcommittee Working Party 2 on Transition Scenarios (IS/WP-2)

To: Charles Jackson, IS/WP-1

From: Merrill Weiss, IS/WP-2

Date: May 26, 1992

Re: Requirements for Disclosure of Selected System

It has been recognized within IS/WP-2 for quite some time that the complete and rapid disclosure of the selected system by the winning proponent is crucial to the timely deployment of Advanced Television. In addition, it will be imperative for the proponent to provide additional services to the industry to achieve a quick launch. It was this recognition that led to its being raised as an issue at the Implementation Subcommittee and assigned to IS/WP-1 to develop policies related to such matters.

At the same time, it was recognized by IS/WP-2 that a balance must be achieved between the requirement for the proponent to provide all the required information and support of other participants in the transition and the need of the proponent to protect its processes and other trade secrets that are not directly related to the ATV system. There has recently been some controversy over how the requirements are expressed, with particular concern that the needed balance has not been included.

After considerable discussion with those concerned with the matter, I believe there is now general agreement on what is required. It only remains to find acceptable language to express what has been agreed. To that end, I offer the following for consideration by IS/WP-1:

It shall be recommended to the Commission that system proponents be required to attest to their willingness to license patents on reasonable and nondiscriminatory terms and to provide the level of documentation and industry support required to ensure that the features and functionality of the system selected as the U.S. standard can be implemented by any manufacturer that chooses to build product to meet that standard. The documentation and support shall be sufficient to permit others with the technology and resources for the manufacture of complex electronic equipment to build equipment that operates using the selected proponent's system and to permit rapid deployment of that system. It shall not be required that the selected proponent reveal the general underlying technologies that are used in the common manufacture of complex electronic equipment.

These requirements mandate that the selected proponent make a major investment in rapidly providing the necessary information to the FCC and to the industry standardization organizations that will document the system. The information to be disclosed will include such details as the exact data structures and/or waveforms used in

FCC Advisory Committee on Advanced Television Service Implementation Subcommittee Working Party 2 on Transition Scenarios

Questions for Informal Survey of Program Users and Providers

Nai	ne Organization
1.	Has your organization considered whether and how it will provide ATV programming to its viewers and/or clients? ☐ Yes ☐ No
2.	Within what time following an FCC decision on an HDTV system do you expect initially to provide such programming? years
За.	If a network or other release activity — Have you spoken with your suppliers about providing programming in HDTV and do you expect them to provide material in the time frame given above? Spoken? Yes No Provide? Yes No
3b.	If a studio or production/post operaton — Have you spoken with your clients about providing programming in HDTV and do you expect them to have a need for such material in the time frame given above? Spoken? Yes No Demand? Yes No
4.	What kinds of material will be the first you distribute in HDTV?
5.	Do you plan to produce such material yourself or will it be obtained from others? Self Others
6.	What kinds of material will eventually be distributed in HDTV?
7.	What formats will be used for what kinds of material?
8.	How soon following an FCC decision on an HDTV system do you plan to begin equipping your facilities for some level of HDTV operation? years
9.	What kinds of material do you plan to produce and what level of technology will you use to produce it?

10.	performance will be adequate for production and distribution of programming for Advanced Television, at least for some users as an interim step. Do you agree or disagree with this concept? Agree Disagree
11.	If you agreed with the preceeding idea, what minimum characteristics do you believe will be appropriate for Advanced Television to differentiate it from current NTSC material?
12.	Do you expect your company to make use of techniques other than HDTV for producing or distributing material for broadcast on HDTV channels?

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Chennel 11

5400 North St. Louis Avenue Chicago, Illinois 60625 (312) 583-5000 FAX: (312) 583-3046 WTTW Chicago

June 18, 1992

Mr. David Folsom
FCC Advisory Committee for Advanced Television Service (ACATS)
Implementation Subcommittee
Working Party 2 on Transition Scenarios
c/o WCNC-TV
Providence Journal Broadcasting
1001 Woodridge Center Drive
Charlotte, NC 28217-1901

Dear David:

On Wednesday, April 29, 1992 at 10:00 AM nineteen people (see exhibit one) representing twelve of the thirteen television stations licensed to operate in the Chicago area and who have television transmitters at either the John Hancock Center or Sears Tower convened for the second time to discuss the implementation of High Definition Television in our market area. We were joined by representatives of Comark and Harris as well as the communication site management company for the John Hancock building.

Since the first meeting was held, WMAQ-TV (NBC) and Sears Tower announced that WMAQ would be moving their transmission facilities to the east mast of Sears Tower in the twenty-nine foot aperture just below WTTW Channel 11 (see exhibits two and three).

I briefed everyone on your letter to me and gave an update on the implementation scenario in which each station will have a two year deadline to apply for a paired ATV channel, a three year deadline for construction of an ATV facility once assigned, and that in fifteen years we would cease broadcasting in NTSC and would have to be converted to ATV.

We have the following concerns in light of the new information on peak power levels:

• Since the peak power level of the ATV transmitter is going to be more than we had expected it to be during our first meeting, each applicant will have to install at least a 55-60 Kw UHF transmitter to achieve the same signal coverage as with the existing NTSC transmitter. Of major concern will be the requirement for larger transmitter space on the highest floors of both buildings. Will this extra space be available for rent by broadcasters?